

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows.

1. (Currently Amended) An arrangement ~~for carrying out a method~~ for controlling a multi-phased and reversible rotating electrical machine, associated with an heat-internal combustion engine of a vehicle, including a network for supplying electrical energy and an electrical energy supply ~~battery serving as a source of electrical energy~~ connected to this network, ~~as well as a command and control unit for the said electrical machine, in which overexcitation of the machine for a predetermined period of time causes the production of energy, and makes this energy available for the execution of certain functions associated with the vehicle, the arrangement comprising:~~
 - a device for supplying to the network ~~the energy produced during the predetermined period of time of~~ by overexcitation of the electrical machine caused by at least braking; wherein the device for supplying the energy ~~is comprises at least one~~ energy storage device that can be connected to the rotating electrical machine by means of a switching device during the predetermined period of time of overexcitation of the machine,
 - a DC to DC device ~~mounted~~ operatively connected between the energy supply battery and the energy storage device; and,
 - a switching device configured to selectively connect the electrical machine to one of the energy supply battery and the energy storage device, to the switching device being configured to connect the electrical machine to the energy storage device during overexcitation of the electrical machine ~~circuit that can directly connect the rotating electrical machine to the battery,~~~~wherein a switch is provided in the above mentioned circuit.~~
2. (Currently Amended) The arrangement according to claim 1, wherein the switching device comprises a metal-oxide-semiconductor field-effect transistor (MOSFET).

3. (Currently Amended) The arrangement according to claim 2, wherein the switching device is comprises a static switch ~~device~~.
4. (Currently Amended) The arrangement according to claim 3, wherein the energy storage device ~~is~~ comprises a capacitor device.
5. (Currently Amended) The arrangement according to claim 4, wherein the switching device ~~includes~~ comprises two transistors, which are mounted head-to-tail in ~~the~~ an output circuit of the rotating electrical machine.
6. (Previously Presented) The arrangement according to claim 1, wherein the switching device comprises a diode, with a switch mounted in series with the diode.
7. (Currently Amended) The arrangement according to claim 6, wherein the switching device comprises an electromagnetic relay.
8. (Previously Presented) The arrangement according to claim 1, wherein the switching device is mounted between the rotating electrical machine and the energy storage device.
9. (Previously Presented) The arrangement according to claim 4, wherein the energy storage device is a supercapacitor with low internal resistance.
10. (Previously Presented) The arrangement according to claim 5, wherein at least one of the transistors is of the metal-oxide-semiconductor field-effect transistor (MOSFET) type.